



INSTALLATION GUIDE



**Nissan 350z (Z33), Z (RZ34),
370Z (Z34)**

Infiniti G35, G37

REAR APPLICATION

Kits 76510/76513

For maximum effectiveness and safety, please read these instructions completely before proceeding with installation.

Failure to read these instructions can result in an incorrect installation which could result in damage to the vehicle, minor to severe personal injury or death.

Protect your Air Lift Performance Purchase by Completing your Warranty Registration



Thank you for purchasing an Air Lift Performance product!

Take a photo of your sales receipt and then scan the QR code to complete your online warranty registration.

TABLE OF CONTENTS

P.02

Introduction

Notation Explanation

P.03

System Overview

P.04

Install the System

Important Safety Notices

Section 1. Prepare the Vehicle

Section 2. Stock Suspension Removal

Section 3. Install the Kit Components

Section 4. Route the Air Lines

P.09

Before Operating

Set the Ride Height

Torque Specifications

Suggested Driving Air Pressure

Maximum Air Pressure

Check for Binding

Installation Checklist

Damping Adjustment

P.12

Limited Warranty and Return Policy

Introduction

Air Lift Performance thanks you for purchasing the most complete, fully engineered high-performance air suspension made for the Nissan 350Z (Z33)/Infiniti G35 and Nissan Z (RZ34)/Nissan 370z (Z34)/Infiniti G37 (except AWD). Read these installation instructions to correctly and safely set up the vehicle for a #lifeonair.

Air Lift assumes that the installer has the mechanical knowledge and ability to work on vehicle suspension systems and has basic tools necessary to complete the project. Special tools needed to complete the installation are noted on the System Overview page.

Air Lift reserves the right to make changes and improvements to its products and publications at any time. For the latest version of this manual, contact Air Lift Performance at **(800) 248-0892** or visit **www.airliftperformance.com**.

An Air Lift Performance air management system is highly recommended for this product. Learn more at **air-lift.co/productlines**.

NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information which is highlighted by one of these notations must be observed to help minimize risk of personal injury or possible improper installation which may render the vehicle unsafe. Notes are used to help emphasize areas of procedural importance and provide helpful suggestions. The following definitions explain the use of these notations as they appear throughout this guide.



DANGER

INDICATES IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.



WARNING

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.



CAUTION

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE VEHICLE OR MINOR PERSONAL INJURY.



NOTE

Used to help emphasize areas of procedural importance and provide helpful suggestions.



TECH TIP

Used to provide helpful tips to ease the installation process.

System Overview

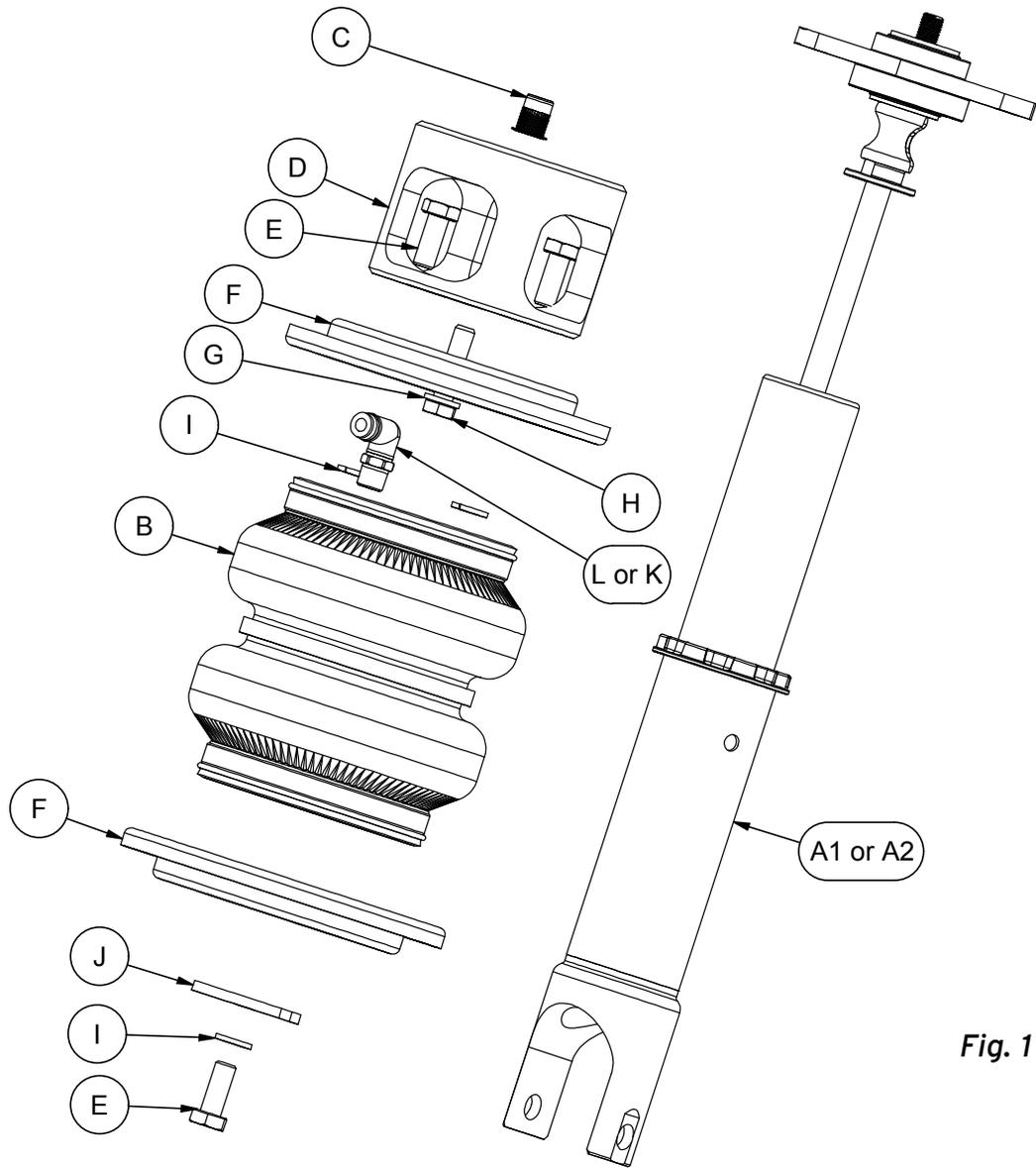


Fig. 1

HARDWARE LIST

Item	Part #	Description	Qty
A1	39147	SHOCK, 350Z, REAR	2
A2	39139	SHOCK, 370Z, REAR	2
B	58550	AIR SPRING, 2B6 REG, 1/4-METRIC	2
C	18585	3/8-16, NUTSERT	2
D	1331 B	SPACER, UPPER AIR SPRING	2
E	17517	M10-1.5 X 25 Hex Cap Screw, CZ	6
F	11801 C	ROLL PLATE	4

Item	Part #	Description	Qty
G	18427	3/8" LOCK WASHER	2
H	17108	3/8-16 X 1.5 HEX CAP SCREW, GRD 5	2
I	18628	M10, SPLIT LOCK WASHER, CZ	6
J	13312	SPACER, LOWER CENTERING, Z33	2
K	21779	1/4" MNPT X 1/4" PTC ELBOW FITTING - DOT	2
L	21851	1/4" MNPT X 3/8" PTC ELBOW FITTING - DOT	2



Missing or damaged parts? Call Air Lift customer service at (800) 248-0892 for a replacement part.

Install the System

**NOTE**

See important safety notices on page 2.

SECTION 1**PREPARE THE VEHICLE**

1. Elevate and support the vehicle using its approved lifting points. Remove the rear wheel and support the hub assembly (Fig. 2).



Fig. 2

SECTION 2**STOCK SUSPENSION REMOVAL**

1. Support the hub assembly to prevent overextension of suspension components.
2. Remove the lower shock bolt from the hub (Figs. 3 & 4).



Fig. 3



Fig. 4

- Remove the two upper shock bracket bolts and remove the shock from the vehicle (Figs. 5 & 6).



Fig. 5



Fig. 6

- Unbolt the lower control arm from the hub and slowly lower the control arm down (Fig. 7).
- Remove the coil spring and rubber isolators from the spring seats. The conical upper spring isolator snaps into place and can be removed with a side-to-side motion (Fig. 8).



Fig. 7



Fig. 8

SECTION 3

INSTALL THE KIT COMPONENTS



PLEASE READ - IMPORTANT INSTALLATION INFORMATION



FOR COIL TO AIR UPGRADE KIT INSTALLATIONS ONLY: Please refer to the included Coil to Air Upgrade Kit installation guide (MN-2000) for details on how to disassemble the coilovers and assemble the air springs.

Also refer to your control system installation guide to ensure the installation of your air suspension system is complete.

- Using the supplied centering spacer (J) as a template, drill a 13/32" (.406" diameter) hole through the center of the lower control arm spring seat (Fig. 9).



Fig. 9

- To install the nutsert (C) in the upper spring seat, the upper air spring spacer (D) can be used as a template to center the air spring location (Fig. 10). Place the spacer against the spring seat and mark the center location. Drill a hole 17/32" (.531" diameter) through the spring seat.

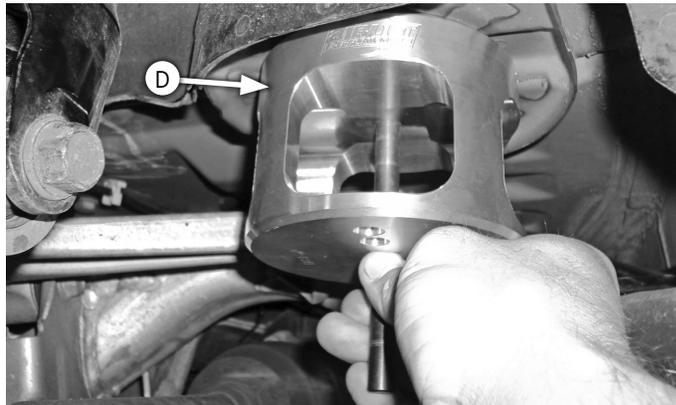


Fig. 10

- Assemble the nutsert and tool bolt and insert the assembly into the drilled hole. While holding the nutsert spacer in place, tighten the tool bolt until the nutsert is fully seated and locked in place (Figs. 11, 12 & 13).

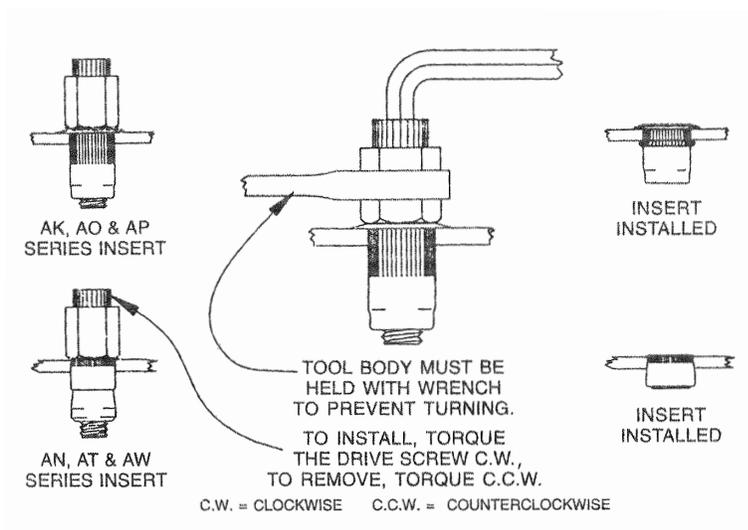


Fig. 11



Fig. 12



Fig. 13

4. Reinstall the lower control arm to the hub. Do not torque at this time.
5. Install the appropriate air fitting (K or L) with thread sealant and tighten 1 and 3/4 turns beyond hand-tight (Fig. 14).

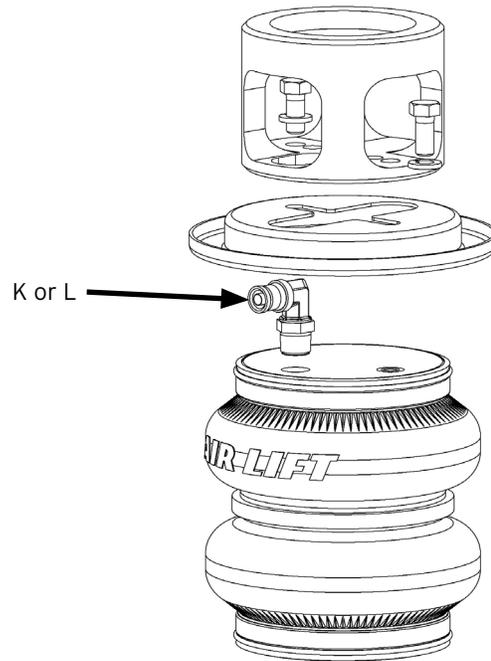


Fig. 14

6. Attach the upper air spring spacer (D) to the upper spring seat (Fig. 15). Torque the upper bracket bolt (H) with a lock washer (G) to 20Nm (15 lb.-ft.).

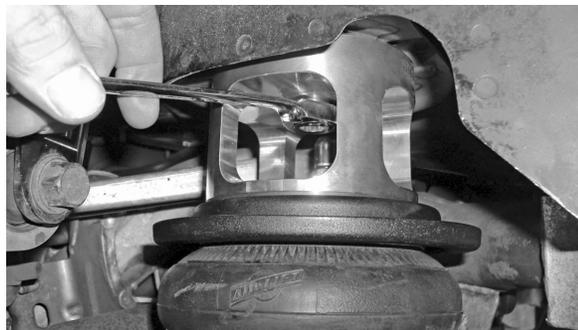


Fig. 15

- Apply the roll plate (F) underneath the air spring (B). Lift the upper control arm and attach the air spring assembly to the control arm with the centering spacer (J), bolt (E) and lock washer (I) through the previously drilled hole. Torque to 20Nm (15 lb.-ft.) (Figs. 16 & 17).

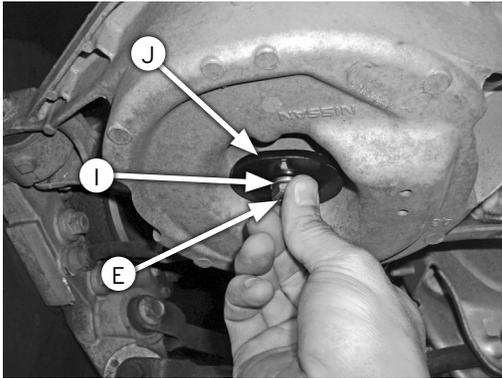


Fig. 16



Fig. 17

- Insert the shock assembly (A1 or A2) into the shock tower and attach the upper bracket to the chassis (Fig. 18). Torque the upper bracket nuts to 28Nm (21 lb.-ft.).

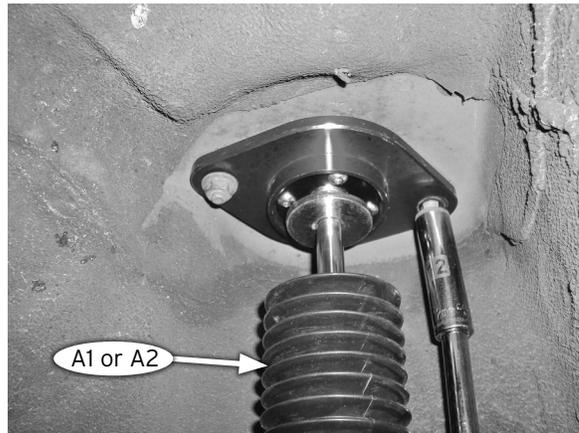


Fig. 18

- Attach the shock fork to the hub. Do not torque the attaching bolt at this time.

SECTION 4. ROUTE THE AIR LINES



WARNING

AFTER INSTALLATION, ENSURE ALL ORIGINAL EQUIPMENT VEHICLE SAFETY FEATURES ARE PROPERLY CALIBRATED BY A QUALIFIED TECHNICIAN. CHANGING VEHICLE HEIGHT MAY AFFECT FUNCTIONING OF SAFETY SENSORS AND CAMERAS.

- Fully compress the suspension using a jack. With the suspension compressed, review the best routing for the air line that is clear of all suspension components and axle.
- Routing should allow for the suspension to extend and steer without kinking, pulling the line tight or rubbing on other components. Following the brake line routing is often a good place to start. Check clearances to all other components.



PLEASE READ - IMPORTANT INSTALLATION INFORMATION

Please refer to your control system installation guide for more details on air line routing and to ensure the installation of your air suspension system is complete.

Before Operating

SET THE RIDE HEIGHT

1. Refer to the User Guide supplied with this kit to set up the suspension.

Torque Specifications		
Location	Nm	Lb.-ft.
Upper bracket to chassis	20	15
Lower air spring attachment bolt	20	15
Lower control arm to hub	72.5	53
Lower control arm to sub-frame	72.5	53
Upper control arm to sub-frame	72.5	53
Trailing link to sub-frame	72.5	53
Trailing link to hub	87.5	65
Transverse link to hub	87.5	65
Transverse link to sub-frame	72.5	53
Shock lower mount to hub (350z (Z33)/G35)	110	81
Shock lower mount to hub (Z (RZ34)/370z (Z34)/	123	91
Shock upper mount to chassis	28	21
Wheels (350z (Z33)/G35)	99-126	73-93
Wheels (Z (RZ34)/370z (Z34)/G37)	108	80

2. Upon successful completion of the installation, follow these pressure requirements for the air springs.



Suggested Driving Air Pressure



Maximum Air Pressure



CAUTION

FAILURE TO MAINTAIN ADEQUATE MINIMUM PRESSURE (OR PRESSURE PROPORTIONAL TO LOAD) MAY RESULT IN EXCESSIVE BOTTOMING OUT AND **WILL VOID THE WARRANTY.**

CHECK FOR BINDING



CAUTION

MAKE SURE THE FRONT WHEELS ARE STRAIGHT WHEN DEFLATING AND REINFLATING AIR SPRINGS.

1. Inflate and deflate the system (do not exceed 8.6BAR [125 PSI]) to check for clearance or binding issues. With the air springs deflated, check clearances on everything so as not to pinch brake lines, vent tubes, etc. Clear lines if necessary.
2. Inflate the air springs to 5.2-6.2BAR (75-90 PSI) and check all connections for leaks.

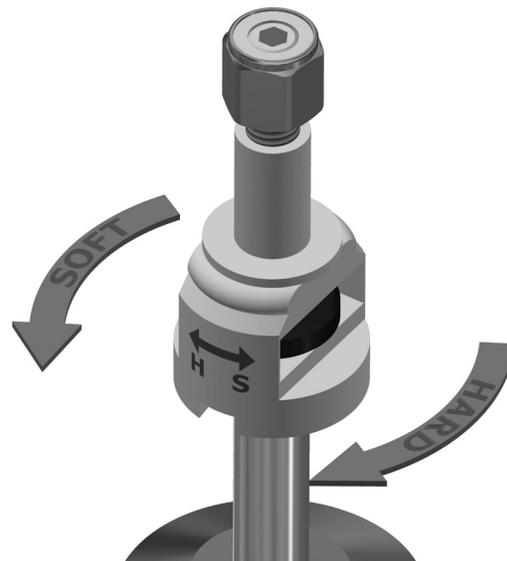
INSTALLATION CHECKLIST

- Clearance** – Inflate the air springs to 5.2-6.2BAR (75-90 PSI) and make sure there is at least 13mm (1/2") clearance from anything that might rub against the air spring. This should be checked with the air spring fully inflated and fully deflated.
- Leak** – Inflate the air springs to 5.2-6.2BAR (75-90 PSI) and check all connections for leaks. All leaks must be eliminated before the vehicle is road-tested.
- Heat** – Be sure there is sufficient clearance from heat sources, at least 152mm (6") from air springs and air lines. If a heat shield was included in the kit, install it. If there is no heat shield, but one is required, call Air Lift customer service at **(800) 248-0892**.
- Fastener** – Recheck all bolts for proper torque.
- Road** – Inflate the air springs to recommended driving pressures (see previous page). Drive the vehicle 16km (10 miles) and recheck for clearance, loose fasteners, and air leaks.
- Operating instructions** – If professionally installed, the installer should review the operating instructions with the owner. Be sure to provide the owner with all paperwork that came with the kit.

DAMPING ADJUSTMENT

1. The dampers in this kit have 32 settings, or "clicks," of adjustable compression and rebound damping characteristics. Damping is changed through the damper rod using the supplied adjuster (example shown here).
2. Turn the adjuster clockwise (H), and the damping settings are hardened, reducing oscillations and body motion. Turn the adjuster counterclockwise (S), and the damping is softened.
3. Each damper will need to be set after installation and your initial drive, as they are not pre-set. It may take multiple adjustments to dial in your ideal ride. A good starting point is in the middle at 16 clicks from full soft, then drive the vehicle and make adjustments either softer or stiffer.

For more information, refer to the user guide.



Notes

Limited Warranty and Return Policy

Air Lift Company provides a 1-year limited warranty* to the original purchaser of Air Lift Performance Air Suspension kits from the date of original purchase, that the products will be free from defects in workmanship and materials when used on cars and trucks as specified by Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy.

* Full Limited Warranty and Return Policy are available at www.airliftperformance.com/warranty and are subject to change.

WARRANTY REGISTRATION & CLAIMS

- To register your warranty, please visit <https://www.airliftperformance.com/support/warranty-registration/>
- To submit a warranty claim, please visit <https://www.airliftperformance.com/support/submit-warranty-claim/>

Thank you for purchasing Air Lift Performance products!

Need Help?

Contact Air Lift Company Customer Service at (800) 248-0892 or +1 (517) 322-2144 for calls from outside the U.S. and Canada.



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PERFORMANCE

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